

COM-HPC

400POS 0.635MM PITCH COM-HPC

Amphenol has developed a pair of 400pos 0.635mm COM-HPC which support 5mm and 10mm stack heights.

COM-HPC is a PICMG sponsored open standard for a family of high performance computer modules targeting the embedded computer space. We have developed a pair of 400pos 0.635mm COM-HPC which support 5mm and 10mm stack heights. These connectors are suitable for a wide range of high reliability applications and demanding environments. This pair of connectors can support up to PCIe Gen5 32Gb/s SI performance.

COM-HPC is specifically designed to address the ever-increasing performance demands and bandwidth needs of all the new and upcoming edge and embedded server applications.



TARGET MARKETS



FEATURES

- Higher bandwidth up to 32Gb/s per channel
- The design gives CPU power support at 150W
- Support full DIMMs up to 8
- Higher pin counts
- The connector pairs can withstand 100G Mechanical Shock
- High un-mating force
- RoHS compliant and lead-free

BENEFITS

- To give an extra-long application life cycle without data transfer rates as bottle necks
- It can handle boards that need to consume higher power
- The form factor is designed to handle the latest Intel Core processors with up to one terabyte of memory via eight DIMM sockets
- To address HPC server application for more pin-out requirement
- Allows applications in the critical working environment
- Ensures secure connection
- Meets environmental, health, and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Terminal: Copper Alloy
- Housing: Glass Filled, High Temperature Resin
- Plating: 10µin min Au on contacts over 50µin min.

ELECTRICAL PERFORMANCE

- Current Rating: 1.2A per contact
- Operating Voltage: 150VAC
- Insulation Resistance: Above 5000MΩ

MECHANICAL PERFORMANCE

- Mating Force: 120N max.
- Un-mating Force: 80N max.
- Durability: 25 mating cycles
- Mechanical Shock: The pair can withstand up to 100G

PACKAGING

- Tape and Reel

ENVIRONMENTAL

- Thermal Shock: In accordance with EIA-364-32
- Mechanical Shock: In accordance with EIA-364-27
- Operating Temperature Range: -55°C to +125°C

APPROVALS & CERTIFICATION

- UL

TARGET MARKETS/APPLICATIONS



Datacom
5G Wireless Infrastructure



Datacom



Industrial Embedded Computing



Medical



Military

PART NUMBERS

Connector	Amphenol PN	Remarks
COM-HPC without Weld		
Receptacle , 3.73mm	10163478-14373T1LF	
Plug , 8.40mm	10163479-14840T1LF	10mm Stack Height
Plug , 3.40mm	10163479-14340T1LF	5mm Stack Height
COM-HPC with Weld Tab		
Receptacle , 3.73mm	10171124-14373T1LF	
Plug , 8.40mm	10171123-14840T1LF	10mm Stack Height
Plug , 3.40mm	10171123-14340T1LF	5mm Stack Height